## What is claimed is:

1. A compound 8 to 50 nucleobases in length targeted to a nucleic acid molecule encoding ribonuclease L, wherein said compound specifically hybridizes with said nucleic acid molecule encoding ribonuclease L and inhibits the expression of ribonuclease L.

- 2. The compound of claim 1 which is an antisense oligonucleotide.
- 3. The compound of claim 2 wherein the antisense oligonucleotide has a sequence comprising SEQ ID NO: 11, 13, 14, 15, 17, 18, 19, 21, 22, 23, 24, 26, 27, 28, 29, 31, 33, 36, 37, 39, 40, 41, 42, 43, 45, 46, 47, 49, 51, 53, 54, 55, 56, 57, 59, 60, 61, 62, 63, 64, 65, 67, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 87 or 88.
- 4. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified internucleoside linkage.
- 5. The compound of claim 4 wherein the modified internucleoside linkage is a phosphorothicate linkage.
- 6. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified sugar moiety.
- 7. The compound of claim 6 wherein the modified sugar moiety is a 2'-0-methoxyethyl sugar moiety.
- 8. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified nucleobase.
- 9. The compound of claim 8 wherein the modified nucleobase is a 5-methylcytosine.
- 10. The compound of claim 2 wherein the antisense oligonucleotide is a chimeric oligonucleotide.
- 11. A compound 8 to 50 nucleobases in length which specifically hybridizes with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding ribonuclease L.
  - 12. A composition comprising the compound of claim 1

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- and a pharmaceutically acceptable carrier or diluent.
- The composition of claim 12 further comprising a colloidal dispersion system.
- The composition of claim 12 wherein the compound is an antisense oligonucleotide.
- method of inhibiting the expression 15. A ribonuclease L in cells or tissues comprising contacting said cells or tissues with the compound of claim 1 so expression of ribonuclease L is inhibited.
- 16. A method of treating an animal having a disease or condition associated with ribonuclease L comprising therapeutically to said animal а administering prophylactically effective amount of the compound of claim 1 so that expression of ribonuclease L is inhibited.
- 17. The method of claim 16 wherein the disease or condition results from an infection.
- 18. The method of claim 16 wherein the disease or disorder arises from aberrant apoptosis.
- The method of claim 16 wherein the disease or condition is cancer.
- 20. A method of modulating the process of RNA-mediated (RNAi) in а cell or animal interference administering to said cell or animal a therapeutically or prophylactically effective amount of the compound of claim 1 so that expression of ribonuclease L is inhibited.